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**ALLIANCE**  
**DIFFERENCE**

# Alliance Light Commercial MSP Ducted Range **NON INVERTER**

*36 000 to 60 000 Btu/h*

- With capacities from 36 000 to 60 000 Btu/h, these ducted units are suitable for light commercial as well as domestic use
- Compact indoor size allows for installation in confined ceiling areas
- Standard air inlet and outlet sizes for simple duct connection
- Max. piping length of 30 to 50 metres between indoor and outdoor units allows flexibility of installation
- Indoor airflow up to 3150m<sup>3</sup>
- Backed nationwide by Fourways Group with branches in all major metropolitan areas.



**Alliance**

[www.allianceafrica.co.za](http://www.allianceafrica.co.za)

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# New Alliance Light Commercial MSP Ducted Range (Non-Inverter)

## 36 000 to 60 000 Btu/h

With a height as compact as 270mm, these Alliance MSP hideaway units are suitable for fitting in confined spaces. An indoor airflow capacity of up to 3150m<sup>3</sup> (MAC60HD) ensures climate control for several average sized rooms or offices. Alliance MSP Ducted units are sold through 8 branches of Fourways Group nationwide.



Indoor model			FOUH36/1/B	FOUH36/3/A	FOUH48/A	FOUH60/A
Power supply		V-Hz-Ph	220-240-50-1	380-420-50-3	380-420-50-3	380-420-50-3
Cooling	Capacity	Btu/h	36000	36000	48000	55000
	Input	W	3900	3650	5750	6590
	Current	A	18.0	6.1	9.4	11.1
	EER	W/W	2.71	2.89	2.45	2.45
Heating	Capacity	Btu/h	39000	37000	55000	60000
	Input	W	3800	3315	4815	5730
	Current	A	17.5	5.64	8.3	10.2
	COP	W/W	3.01	3.27	3.35	3.07
Indoor fan motor	Input	W	253	253	430.0	430.0
	Capacitor		8	8	10	10
Indoor coil	Speed(Hi/Med/Lo)	r/min	1110/1000/910/780	1104/991/876/787	790/715/620/540	790/715/620/540
	Number of rows		3.0	3	3.0	3.0
	Tube pitch(a)*row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37
	Fin spacing	mm	1.4	1.4	1.3	1.3
	Fin type		Hydrophilic aluminum	Hydrophilic aluminium	Hydrophilic aluminum(Golden)	Hydrophilic aluminum(Golden)
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7, innergroove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	Coil length*height*width	mm	915x294x40.11	915x294x40.11	1055x357x40.11	1055x357x40.11
Number of circuits		7	7	8	8	
Indoor air flow (Hi/Med/Lo)		m <sup>3</sup> /h	1700/1280/950	1804/1372/1149	2650/1850/1450	2650/1850/1450
ESP	Rated	Pa	37	37	50	50
	Range	Pa	0-160	0-100	0-200	0-200
Indoor noise level (Hi/Med/Lo)		dB(A)	45/41.5/38.5	47/40.5/38	50.5/45/42	50.5/45/42
Indoor unit	Dimension (WxDxH)	mm	1100x774x249	1100x774x249	1200x625x380	1200x625x380
	Packing(WxDxH)	mm	1305x805x315	1305x805x305	1485x675x460	1485x675x460
	Net/Gross weight	kg	33.2/40.3	32.2/39.4	52.1/60.4	52.2/60.2
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Drainage water pipe diameter		mm	ODΦ25mm	ODΦ25	ODΦ25mm	ODΦ25mm
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
Controller			Wire Control	Wired control	wired control	wired control
Operation temperature		°C	17-30	17-30	17-30	17-30
Room temperature	Cooling	°C	17-32	17-32	17-32	17-32
	Heating	°C	18-43	0-30	0-30	0-30

Outdoor model			FOUH36X1/B	MAC-36X3/A	MAC-48X/A	MAC-60X/A
Power supply		V-HZ-Ph	220-240-50-1	380-415-50-3	380-415-50-3	380-415-50-3
Max.input consumption		W	5200	4250	6300	7500
Max.input current		A	2	7	11	12.6
Compressor	Type		ROTARY	ROTARY	SCROLL	SCROLL
	Capacity	Btu/h	35604	36000	48109	55957
	Input	W	3520	3430	4750.00	5750.00
	Rated current(RLA)	A	16.35	6.4	8.22	9.77
	Locked rotor Amp(LRA)	A	89	36	66	67
	Thermal protector position		INTERNAL	INTERNAL	INTERNAL	INTERNAL
	Capacitor		90.00	-	-	-
Outdoor fan motor	Input	W	135	293	162	162
	Capacitor		10	10	3.5	3.5
Outdoor coil	Speed	r/min	850/770	850	765	765
	Number of rows		2	2	2	2
	Tube pitch(a)* row pitch(b)	mm	25.4x22	25.4x22	21x22	21x22
	Fin spacing	mm	1.3	1.3	1.3	1.3
	Fin type		Hydrophilic aluminum	Hydrophilic aluminium	Hydrophilic aluminum(Golden)	Hydrophilic aluminum(Golden)
	Tube outside dia.and type	mm	Φ9.52,Inner groove tube	Φ9.52,inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	Coil length * height * width	mm	995x762x44	1010x756x26.74	830x630x22+795x630x22	830*22*630+795*22*630
Number of circuits		4	6	8	8	
Outdoor noise level (sound pressure)		dB(A)	59.6	63	63	63.3
Throttle type			Throttle valve	Throttle valve	Throttle valve	Throttle valve
Outdoor unit	Dimension(WxDxH)	mm	946x410x810	946x410x810	900x350x1170	900x350x1170
	Packing(WxDxH)	mm	1090x500x885	1090x500x875	1032x443x1307	1032x443x1307
	Net/Gross weight	kg	75.6/80.4	74.4/78.9	98.6/109.3	99.7/111.2
Refrigerant type /Quantity	Type		2088	R410A	R410A	R410A
	Charged volume	kg	0	2.85	3.3	3.3
Design pressure		MPa	4.8/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side/ Gas side	mm (inch)	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	25	30	50	50
	Max. difference in level	m	15	20	30	30
Ambient temperature	Cooling	°C	0-60	-7-43	18-43	-15-43
	Heating	°C	-7-24	-7-24	-7-24	-7-24

Alliance reserves the right to discontinue or change specifications at any time without notice and without incurring obligation. E&OE.

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